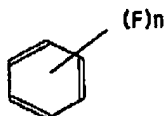


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Serial No. 09/786,012In the Claims:Claim 1 (currently amended).

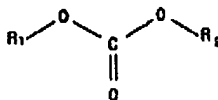
A non-aqueous electrolyte composition for lithium secondary cells, comprising a lithium salt dissolved in an organic solvent system composed of a fluorobenzene component (FB) and a carbonic acid ester component (CE), wherein the solvent components are present in a ~~volume percent ratio range from 50 FB :50 CE to 41.1~~ 12.5 FB: 88.9 87.5 CE, based on volume percent, said fluorobenzene component being one or more compounds represented by the following general formula 1:

[Formula 1]



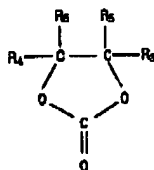
wherein F represents a fluorine element and n is an integer of 1-6; and said carbonic acid ester component ~~being one or more compounds~~ having compounds represented by the following general formulas 2 and 3:

[Formula 2]



wherein R₁ and R₂, which may be the same or different, each represents an alkyl radical containing 1-4 carbon atoms and

[Formula 3]



wherein R₃, R₄, R₅ and R₆, which may be the same or different, each represents a hydrogen atom or

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an alkyl radical containing 1-4 carbon atoms.

Claim 2 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said fluorobenzene component of the general formula 1 is a mixture of fluorobenzene and difluorobenzene.

Claim 3 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said lithium salt is selected from the group consisting of LiPF_6 , LiClO_4 , LiAsF_6 , LiBF_4 , LiCF_3SO_3 and mixtures thereof and used at a concentration of 0.7-2.0 M.

Claim 4 (previously amended).

The non-aqueous electrolyte composition as set forth in claim 1, wherein said carbonic acid ester component comprises a compound selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate, dimethyl carbonate, diethyl carbonate, dipropyl carbonate, ethylmethyl carbonate, methylpropyl carbonate, and ethylpropyl carbonate.

Claim 5 (currently amended).

5. The non-aqueous electrolyte composition as set forth in claim 1, wherein said organic solvent system ranges, in the volume ratio of the solvent component of the general formula 1 to the solvent component of the general formula 2, from 2/1 to $1/81/4$.

Claim 6 (currently cancelled).

Claim 7 (currently cancelled).

Claim 8 (currently cancelled).

Claim 9 (currently cancelled).